



# SERIES 80

# Mighty Mouse Connectors and Cables



## Table of Contents

### Series 80 Mighty Mouse Overview



Table of Contents	A-1
Connector Series Overview	A-3
Performance Features	A-4
Standard Connector Offerings	A-8
Special Application Offerings	A-10

Cordsets and Jumper Cables	A-12
Complex Cable Assemblies	A-13

### General Information and Reference



Options and Specifications Guide	B-1
Standard Contact Arrangements and PCB Footprints	B-2
Combo Contact Arrangements and PCB Footprints	B-13
Alternate Key and Keyway Positions	B-19

Panel Cutout Dimensions	B-20
Recommended Torque Values	B-25
Space Grade Application Guidelines	B-26
Modification Codes and Material/Finish Codes	B-31
Series 80 Performance Test Report IAW MIL-DTL-810	B-32

### Contacts, Crimp Tools and Assembly Tools



Product Selection Guide	C-1
About Series 80 Mighty Mouse Contacts	C-2
Size #23 Contacts	C-4
Size #23 Termination and Installation Instructions	C-9
Size #20 AWG Wire Adapter for #23 Contact	C-10
Size #20HD Crimp Contacts	C-10
Size #20 and #16 Crimp Contacts	C-11
Size #12 Crimp and Pneumatic Contacts	C-12
Size #8 Power Contacts	C-13

Size #16 and #12 Coaxial Contacts	C-14
Size #16 and #12 Coaxial Contacts	C-17
Size #8 Coax, Twinax (Concentric and Differential), and Quadrx Contacts	C-21
Hand and Pneumatic Crimp Tools	C-41
Insertion/Removal Tools	C-44
Contact Retention Tester & Sealing Boot	C-45
Dummy Contact Sealing Plugs	C-46
Grommet Sealing Plugs	C-47

### Series 800 Connectors *UNF Threads*



Product Selection Guide	D-1
Features and Benefits	D-2
Reference Material	D-4
Hex or Knurl Plug with Crimp Contacts	D-8
Receptacle with Crimp Contacts	D-10

Solder Cup or PCB Receptacle	D-14
Right Angle PCB Receptacle	D-17
Hermetic PC Tail or Solder Cup Receptacle	D-22
Jam-Nut, Bulkhead Feedthrough	D-26
Cordsets	D-28

### Series 801 Connectors *Rugged Double-Start ACME Threads*



Product Selection Guide	E-1
Features and Benefits	E-3
Reference Material	E-5
Plug with Crimp Contacts	E-12
Panel Mount Plug	E-14
"Cobra" Low Profile Right Angle Plug	E-16
Receptacle with Crimp Contacts	E-18
PC Tail or Solder Cup Receptacle	E-23
PCB Rcpt. with PC Tails and Ground Pins	E-26
PCB Rcpt. with PC tails and Thrd Standoffs	E-29
Size 12 Twinax PC Tail Receptacle	E-31
Board Mount Jam-Nut Receptacle	E-33

Right Angle PC Tail Receptacle	E-34
Code Red Light Weight Hermetic Receptacle	E-38
PC Tail or Solder Cup Hermetic Receptacle	E-41
PC Tail Hermetic Pin Contact Coax Rcpt.	E-45
PCB Hermetic Rcpt. with Crimp Coax Cntcts	E-48
PCB Hermetic Receptacle; Thrd Standoffs	E-52
PCB Hermetic Rcpt.; #12 & #16 PC Tail Coax	E-55
Jam-Nut Bulk Head Feedthrough	E-59
Hermetic Bulkhead Feedthrough	E-61
Sav-Con Connector Saver	E-63
Cordsets	E-65

### Series 802 Connectors *"AquaMouse" 3500 PSI Mated*



Product Selection Guide	F-1
Features and Benefits	F-2
Reference Material	F-3
Plug with Crimp Contacts	F-10
Receptacle with Crimp Contacts	F-12
Receptacle with PC Tails or Solder Cups	F-16
Hermetic Rcpt. with Rear Accessory Thd	F-20

Hermetic Receptacle with Crimp Removable Termination	F-24
Hermetic PC Tail/Solder Cup Receptacle	F-27
Hermetic Receptacle with Size 12 or 16 Coax Contacts	F-32
Hermetic Bulkhead Feedthrough; Jam-Nut	F-37
Cordsets	F-39

### Series 803 Connectors *Bayonet*



Product Selection Guide	G-1
Features and Benefits	G-3
Reference Material	G-5
Plug with Crimp Contacts	G-8
Receptacle with Crimp Contacts	G-10

Receptacle with PC Tails or Solder Cups	G-14
Hermetic PC Tails / Solder Cup Receptacle	G-16
Bulkhead Feedthrough	G-18
Cordsets	G-20



SERIES 80

# Mighty Mouse Connectors and Cables



## Table of Contents

### Series 804 Connectors *Push-Pull*



Product Selection Guide	H-1	Quick Release Receptacle with Accessory Threads	H-29
Features and Benefits	H-3	Jam-Nut Mount PC Tail / Solder Cup Rcpt.	H-31
Reference Information	H-4	PC Tail or Soldercup Rcpt. with Ground Pins	H-34
Cable Plug with Crimp Contacts	H-10	CODE RED Lightweight Hermetic PC Tail / Solder Cup Receptacle	H-37
“Cobra” Low Profile, Right Angle Plug	H-12	PC Tail / Solder Cup Hermetic Rcpt.	H-40
Quick Release Plug with Accessory Thrds	H-15	Jam-Nut Mount Bulkhead Feedthru Cordsets	H-45
Panel Mount Plug with Banding Platform	H-17		
Panel Mount Plug with PC Tail or Solder Cup	H-21		
Receptacle with Crimp Removable Contacts	H-25		

### Series 805 Connectors *Triple-Start ACME Threads*



Product Selection Guide	J-1	CODE RED Hermetic Sldr Cup/PC Tail Rcpt.	J-36
Features and Benefits	J-3	Hermetic Solder Cup or PC Tail Receptacle	J-38
Reference Information	J-4	Hermetic Sldr Cup Rcpt. w/ Banding Porch	J-41
Plug with Crimp Contacts	J-12	Hermetic Rcpt. w/ PC Tail Coax Contacts	J-44
“Cobra” Right Angle Low Profile Plug	J-14	Hermetic Rcpt., #12 & #16 PC Tail Coax	J-47
Environmental Crimp Contact Receptacle	J-17	Jam-Nut Bulkhead Feedthru; Environmental	J-49
Enviro. or Watertight Recept, PC Tail/Solder Cup	J-22	CODE RED Hermetic Bulkhead Feedthru	J-51
PC Tail/Solder Cup Rcpt; Threaded Standoffs	J-26	Hermetic Bulkhead Feedthrough	J-53
PC Tail/Solder Cup Rcpt. with Ground Pins	J-28	Sav-Con® Connector Savers	J-55
Right Angle PC Tail, Jam-Nut Mnt Receptacle	J-31	Cordsets	J-57

### Series 811 Connectors *High Density*



Product Selection Guide	K-1	Jam Nut PC Tail Receptacles; Standard or Watertight Sealing	K-13
Features, Benefits and Specifications	K-2	Box Mount PC Tail Receptacles Standard or Watertight Sealing	K-14
Prewired In-Line Plug	K-7	Harsh Environment Cordsets	K-16
Prewired In-Line Receptacle	K-8		
Prewired Wall Mount Receptacles	K-9		
Prewired Jam Nut Receptacles	K-11		

### Cordsets *Optimized for High-Speed Differential Impedance*



Product Selection Guide	L-1	Mighty Mouse to USB 2.0 Type A Cordsets	L-11
Features, Benefits, and Selection Guide	L-2	Mighty Mouse to RJ-45 Ethernet Cordsets	L-13
Mighty Mouse-to-Mighty Mouse Connector Cordsets; Ethernet, IEEE 1394, USB 2.0, and STP	L-4		

### High-Speed Cable *Optimized for High-Speed Protocols*



Product Selection Guide	M-1	Avionic Cat 6a Ethernet Cable	M-5
General Information	M-2	USB 2.0 Cable	M-6
100 ohm Differential Parallel Pair Data Cable	M-3	IEEE 13394 Cable	M-7
Tactical Cat 5e Ethernet Cable	M-4		

### Series 80 Accessories and Backshells



Product Selection Guide	N-1	Heat-Shrink Boots	N-39
Flange Gaskets	N-2	Holding Tools and Banding Tools	N-46
O-Rings	N-5	Protective Covers	N-48
Mounting Flange	N-10	Pro-Seal Protective Covers	N-79
Jam-Nuts and Hex Nuts and Spanner Wrench Sockets	N-11	Dummy Receptacles	N-88
Shorting Caps and Backshells	N-17		

### Part Number Index



Index of part numbers